DIGITAL VIDEO RECORDING SYSTEM

DVR (Model: DVR40xx)

USER MANUAL (Ver 2.0)

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Contents

Production Information …… 3

DVR Application S/W Installation ……5

DVR Application S/W Control Part …… 9

DVR Application S/W Status Part ……13

DVR Application S/W Search Part ……18

DVR Application S/W Capture Full Screen Part ……25

DVR Application S/W Replay Full Screen Part ……28

DVR Application S/W System Setup Part ……29

DVR Trouble Shooting ……36

2. System requirements

● OS : Microsoft Windows 98 or later

● CPU : Intel Pentium III 500MHz or higher

● RAM : 128MB or higher

● VGA : ATI Compatible AGP Graphic Card, VIP(Video Input Port) Existence

● Resolution : 1024 × 768, 32bit Color

● HDD : 30GB or more

● Backup Storage : CD R/W, Tape Backup System, DVD-RAM, etc

● S/W : Direct X 7.0 or later

● Driver : DVR Driver

3. DVR System Structure

- DVR System User Manual
- DVR System Capture Board
- DVR System Live Board
- DVR Application Software Diskette

4. Options

● Alarm

● Infrared Sensor

● PTZ (Pan, Tilt, Zoom)

5. DVR Application Disk file components

● Install.bat : install

● Logo.sys : DVR System logo file

● DVRinstall : DVR System Application install file

6. Attention! Before setup:

● check system for DVR driver

● check if Direct X 7.0 or higher is installed

● remove HDD Automatic Disk clean options

: Select Drive → Property → Disk Clean → Setup

→ “When a shortage of HDD Drive space, do automatically disk clean”

remove a checked option

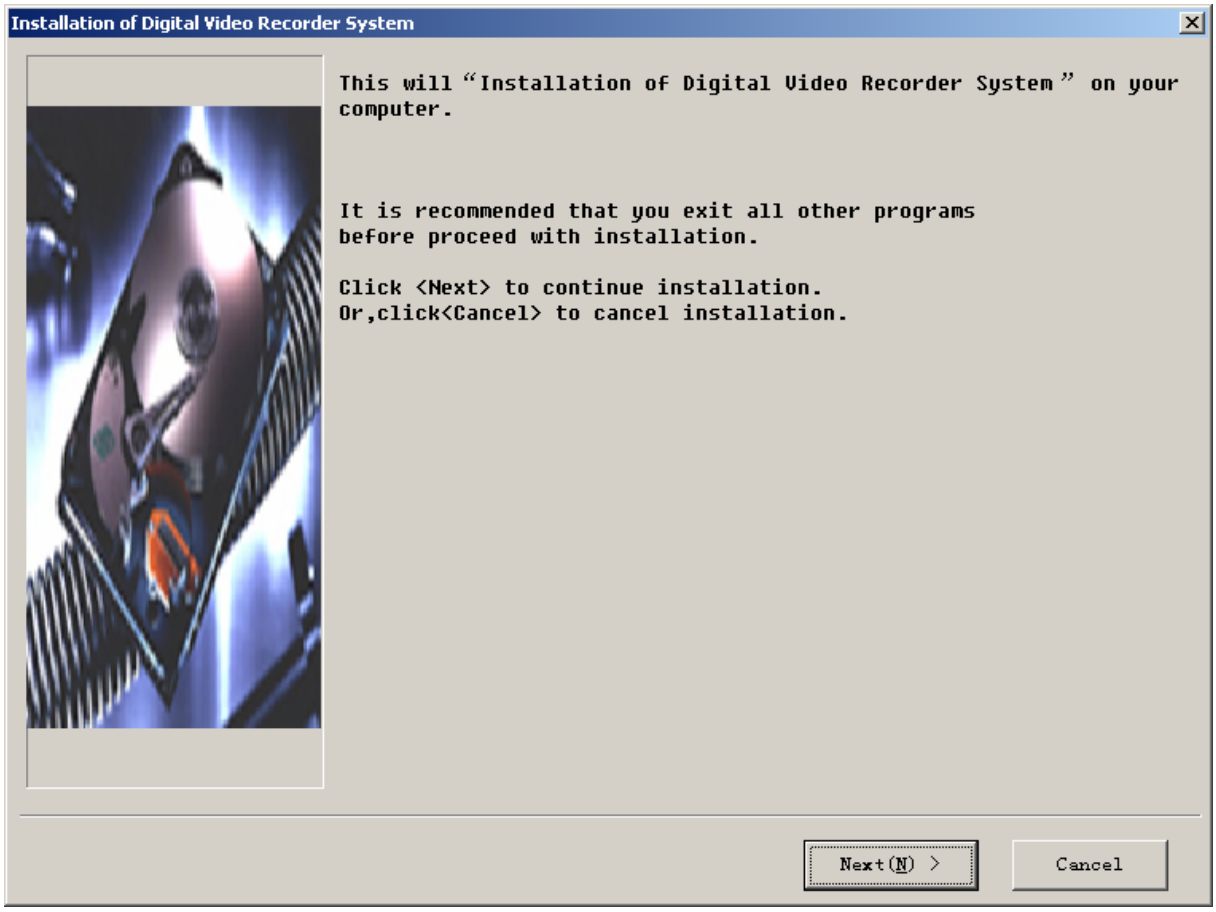
● set image resolution to 1024×768 mode & 32bit color

◆ DVR Software Installation

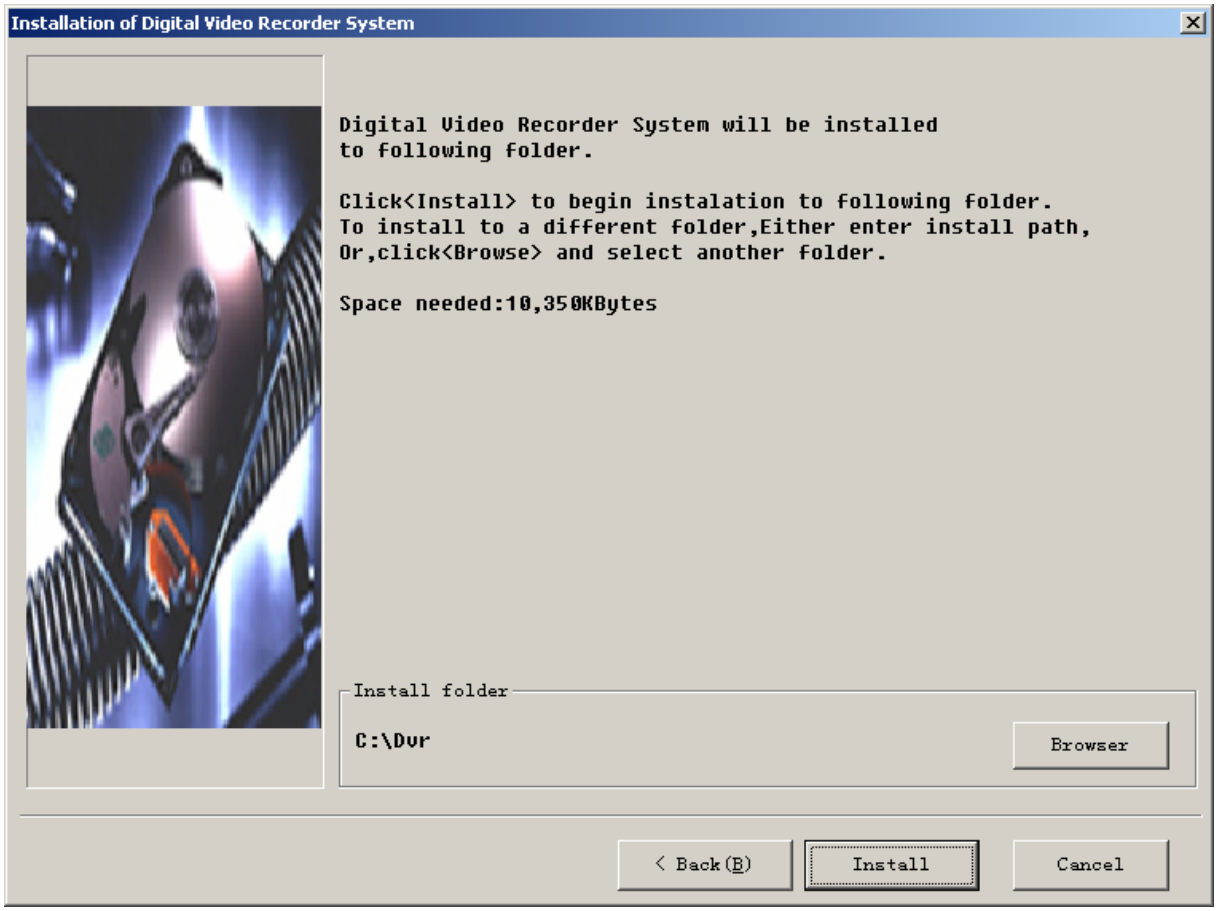
1.Setup

1-1. Insert DVR Application Disk in Floppy Drive

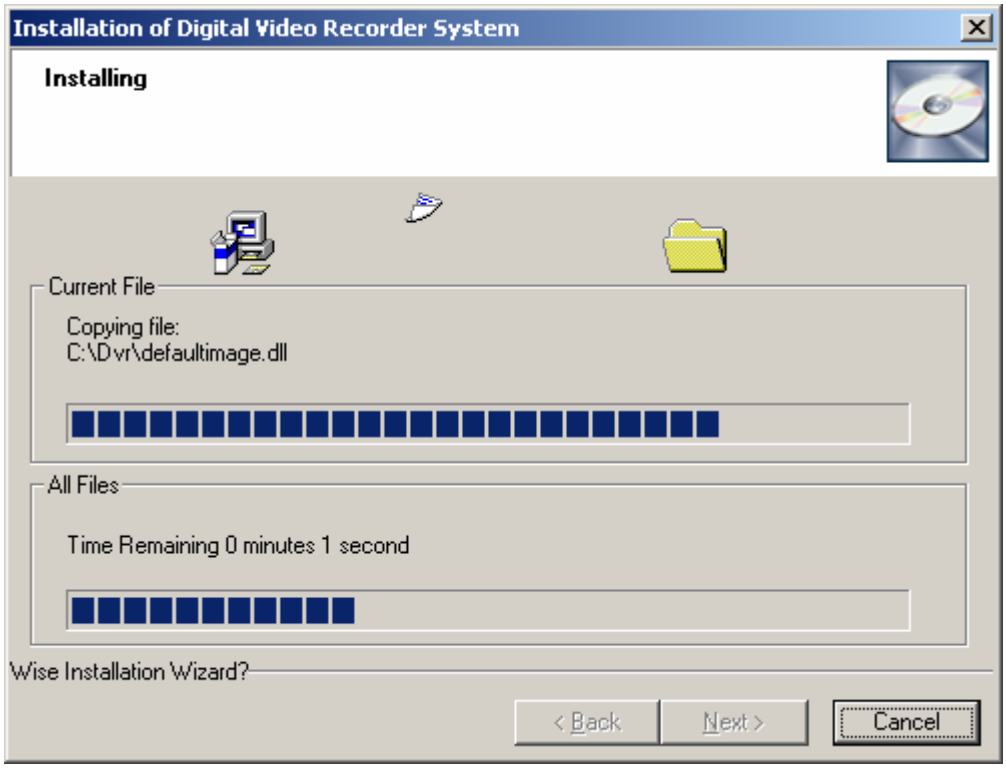
1-2. Double Click on Install file



1-3. Choose the folder you wish to install this software to and click "Install"



1-4. Complete setup and system reboot



1-6. Run DVR Application software

1-7. Check that the DVR System menu appears on the Program menu

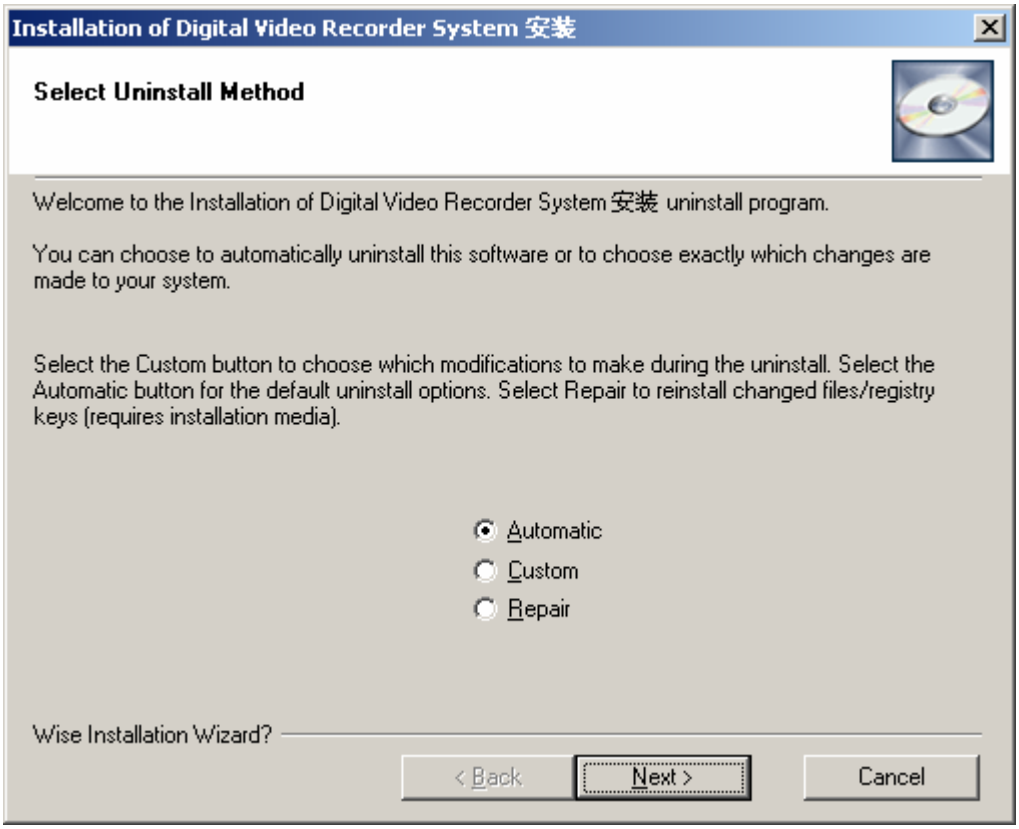
1-8. Check that the DVR System icon appears on the Start Program

1-10. Software installation has been completed successfully

1-11. Remove Install disk

2. DVR software Reinstall

2-1. Pay attention when deleting data files during program reinstallation

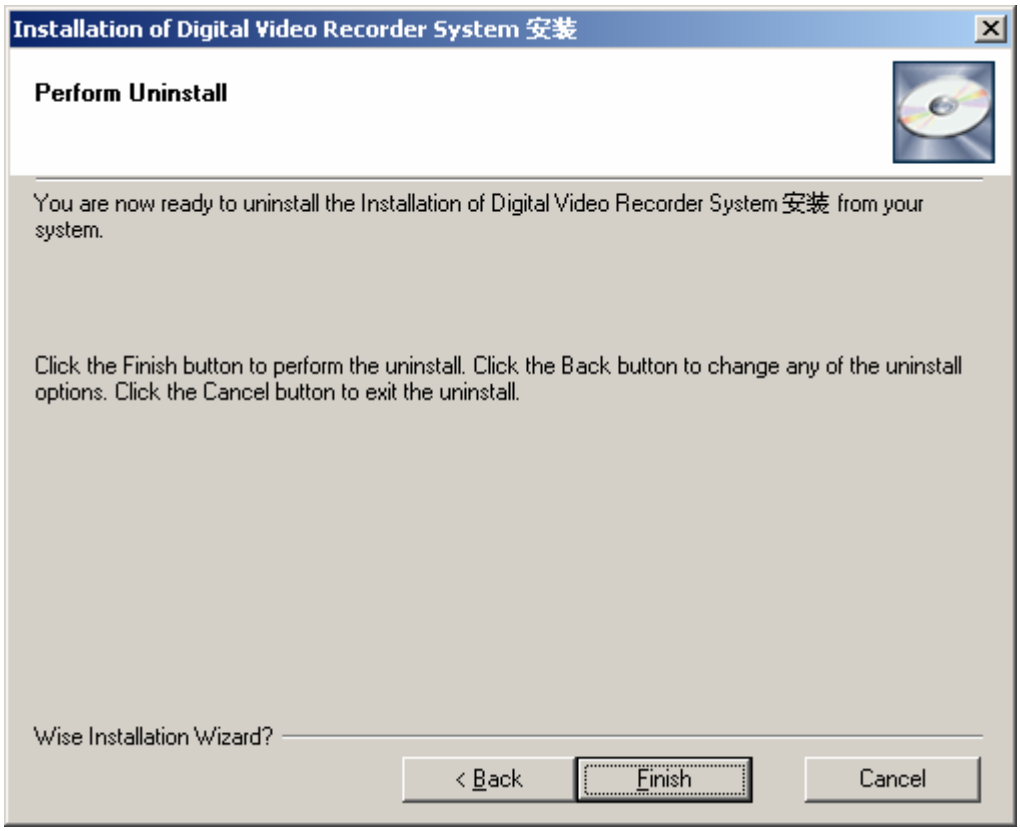


2-2. Previous data files will be removed automatically if “No more Query” is selected

2-3. Follow the steps for initial installation to complete the process

3. DVR Software Uninstall

3-1 run Uninstall in the DVR system Folder

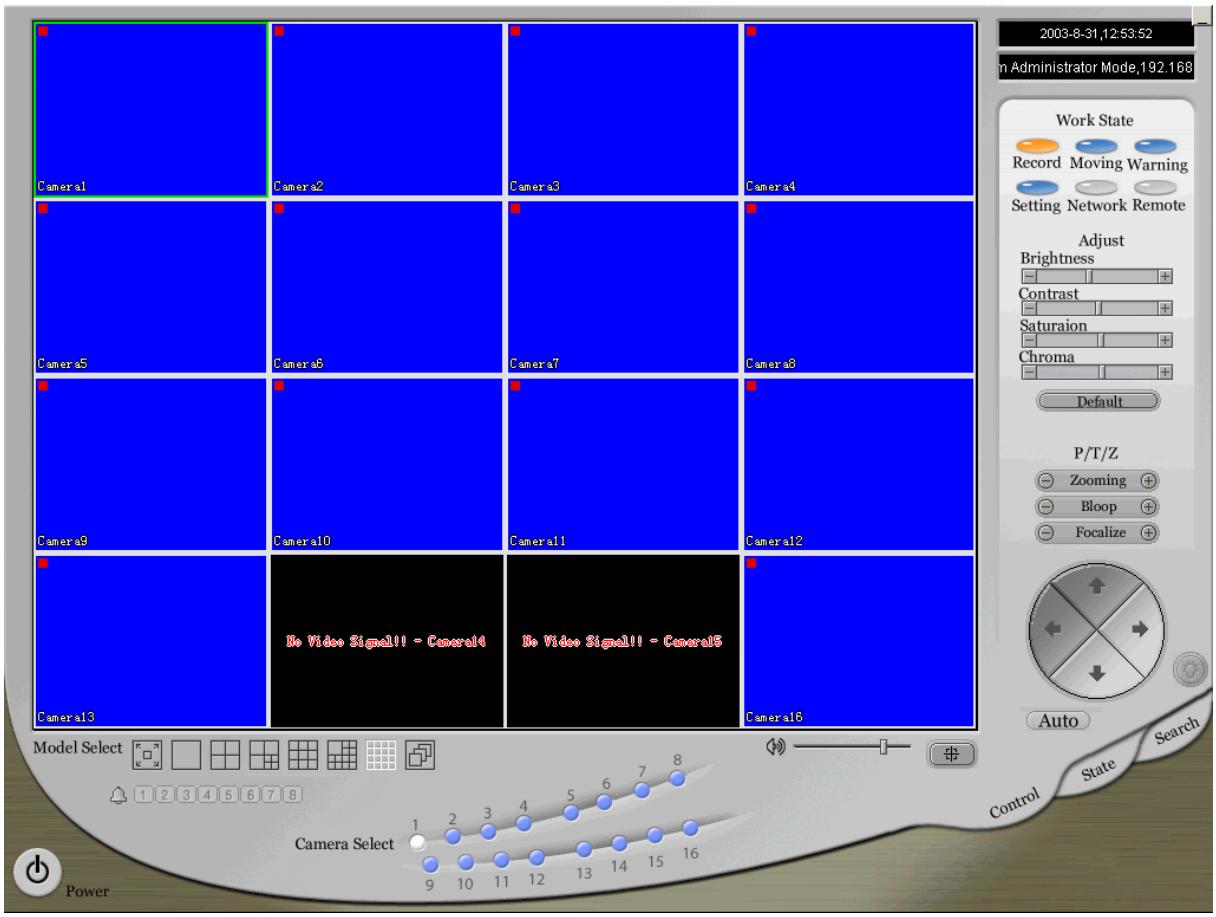


3-1. Click “Yes” to uninstall

3-2. Click "Ok"

3-3. The software has been successfully uninstalled

◆ DVR Control Panel



1. Information: displays date & other system information

2. Access: control recording, motion sensors, alarms, setup, network, and Web-Cam

2-1. Record: start/stop recording

2-2. Motion: turn motion detection on/off

2-3. Alarm: turn alarms on/off

2-4. Setup: configure system settings

2-5. Network: configure network settings

2-6. WebCam. : Configure Web-Cam settings

3. Adjust: **adjust the color and brightness settings**

3-1. Brightness: adjust Brightness

3-2. Contrast: adjust Contrast.

3-3. Saturation: adjust Saturation.

3-4. Hue: adjust Hue

3-5. Default: restores settings to default setup mode

※ only applies to the selected camera

4. PTZ: **adjust Pan / Tilt / Zoom for the selected camera**

4-1. Zoom: select Zoom In or Out

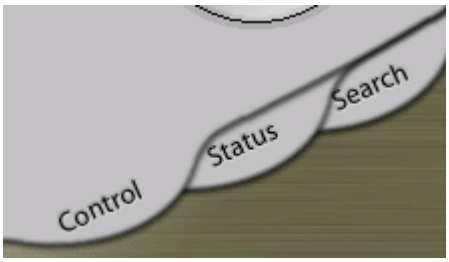
4-2. IRIS: select IRIS In or Out

4-3. FOCUS: select FOCUS In or Out.

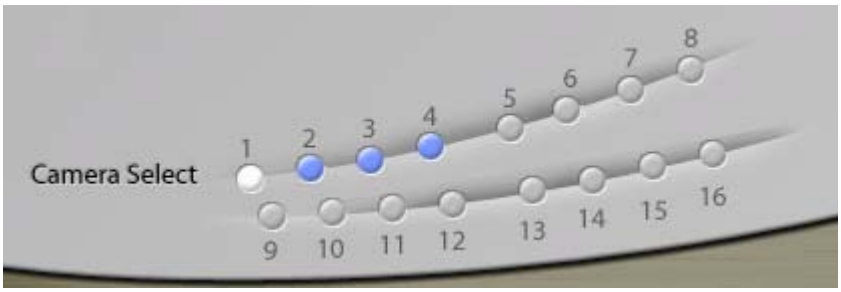
4-4. ▲▼◂▸ : select direction

※ only applies t o the selected camera

5. Tabmode: change between system panels



6. Camera Select: **select the camera you wish to view or adjust**



※ only applies to the camera selected

7. Mode Select: **control the split screen mode**

7-1. Fullscreen mode: displays full screen

7-2. 1 split mode: display one screen

7-3. 4 splits mode: displays 4 screens

7-4. 7 splits mode: displays 7 screens

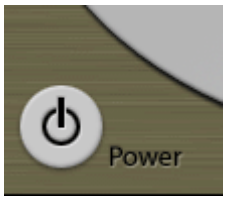
7-5. 9 splits mode: displays 9 screens

7-6. 13 splits mode: displays 13 screens

7-7. 16 splits mode: displays 16 screens

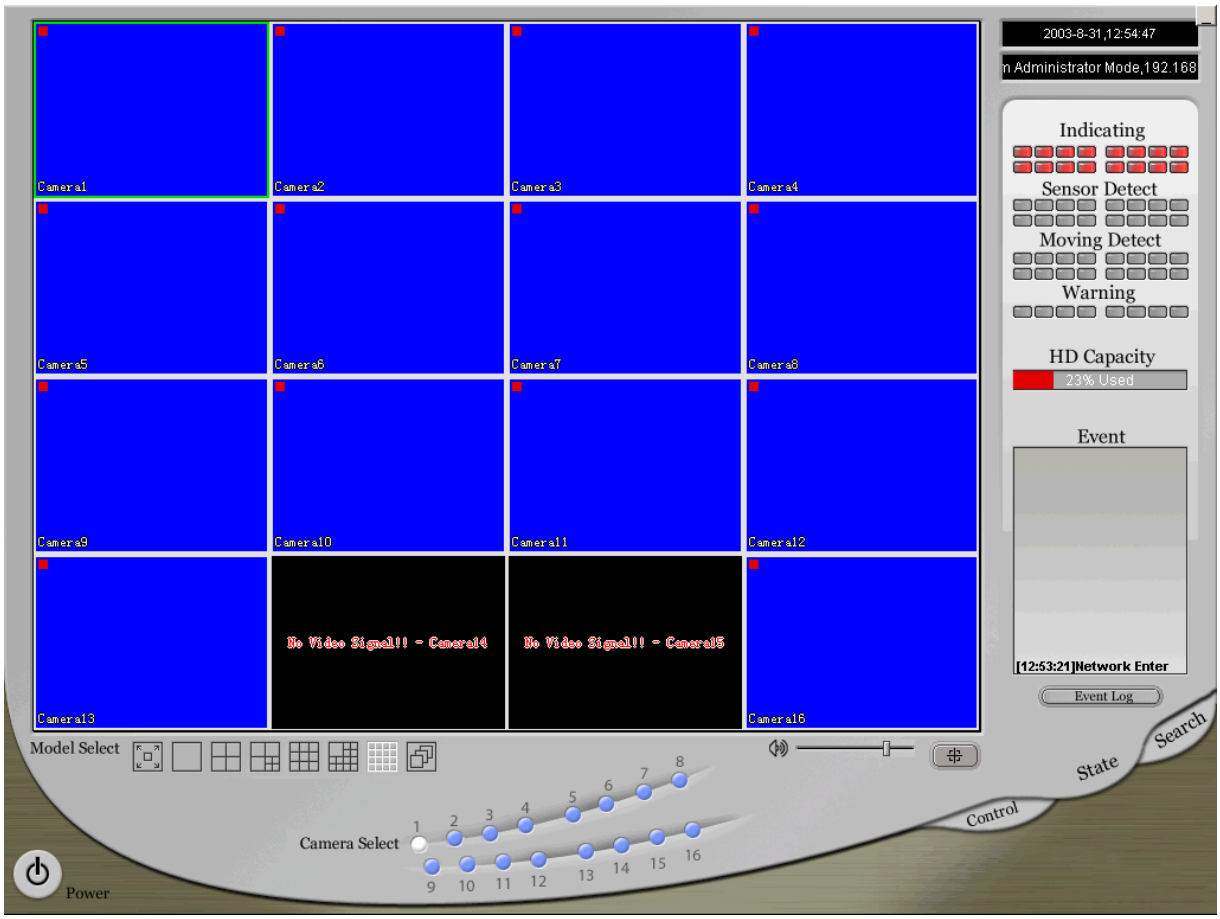
7-8. Auto Switching: rotates between split screen modes at a regular interval

8. Power: **Close Application**



※ To close the application either use the power button or System Shut Down in the Setup mode.

DVR Status Panel



1. Information: displays date & other system information

2. Recording Camera: display the status of each camera

2-1. Gray: indicates an inert camera

2-2. Green: indicates an active camera

2-3. Red: indicates a camera is recording

※ Indicator lights start at camera 1and move to the right then down to camera 16

3. Sensor Detect: **displays the status of detection sensors**

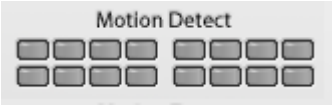
3-1. Gray: indicates an inert sensor

3-2. Green: indicates an active sensor

3-3. Red: indicates a sensor has been activated

Indicator lights start at camera 1and move to the right then down to camera 16

4. Motion Detect: displays the status of motion sensors



4-1. Gray: indicates an inert motion sensor

4-2. Green: indicates an active motion sensor

4-3. Red: indicates a sensor has been activated

Indicator lights start at camera 1and move to the right then down to camera 16

5. Alarm: **displays the status of Alarms**

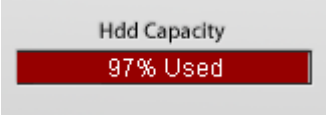
5-1. Gray: indicates an inert alarm

5-2. Green: indicates an active alarm

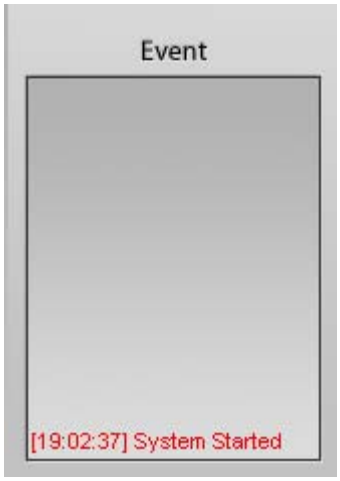
5-3. Red: indicates an alarm has been activated

Indicator lights start at alarm 1 and move to the right to alarm 8

6. HDD Capacity: **displays current HDD capacity**



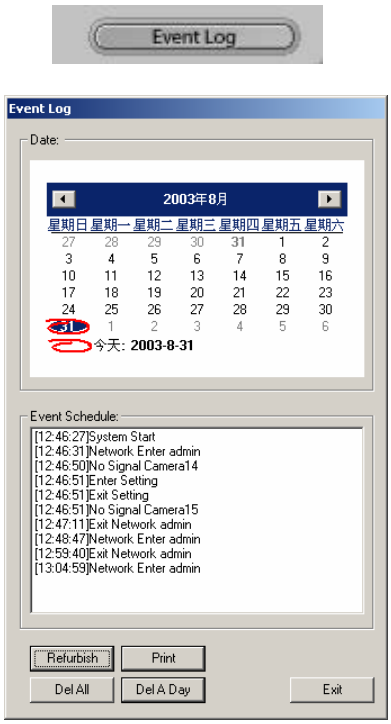
8. Event: **displays information for each event in the system as hey occur**



 displays all system activities

(example: system start, shutdown, recording, alarm activation, etc)

9. Event Log: records all system events



9-1. To open click "Event log"

9-2. Date: select the date you wish to view

9-3. Event List: displays all event information for the selected date

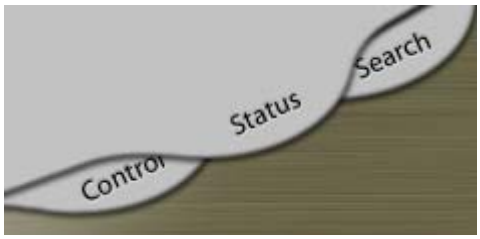
9-4. Refresh: refreshes the screen

9-5. Exit: closes EventLog Dialogue Box

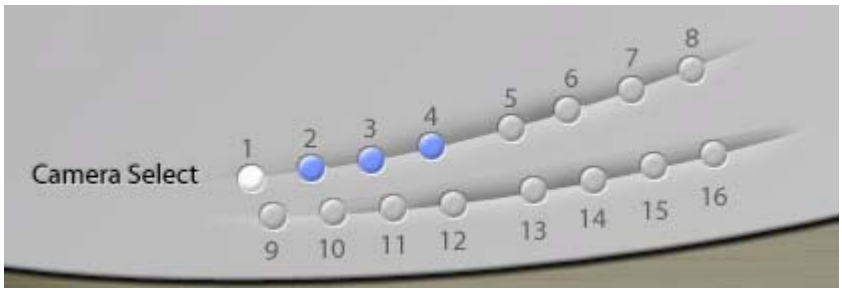
9-6. Delete: delete selected event

9-7. DeleteAll : delete all events for the selected date

10. Tabmode: change between system panels



11. Camera Select: **select the camera you wish to view or adjust**



 view event log for one camera at a time

12. Mode Select: **control split screen display**

12-1. Fullscreen mode: displays full screen mode

12-2. 1 split mode: displays one screen

12-3. 4 splits mode: displays 4 screens

12-4. 7 splits mode: displays 7 screens

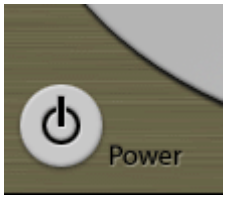
12-5. 9 splits mode: displays 9 screens

12-6. 13 splits mode: displays 13 screens

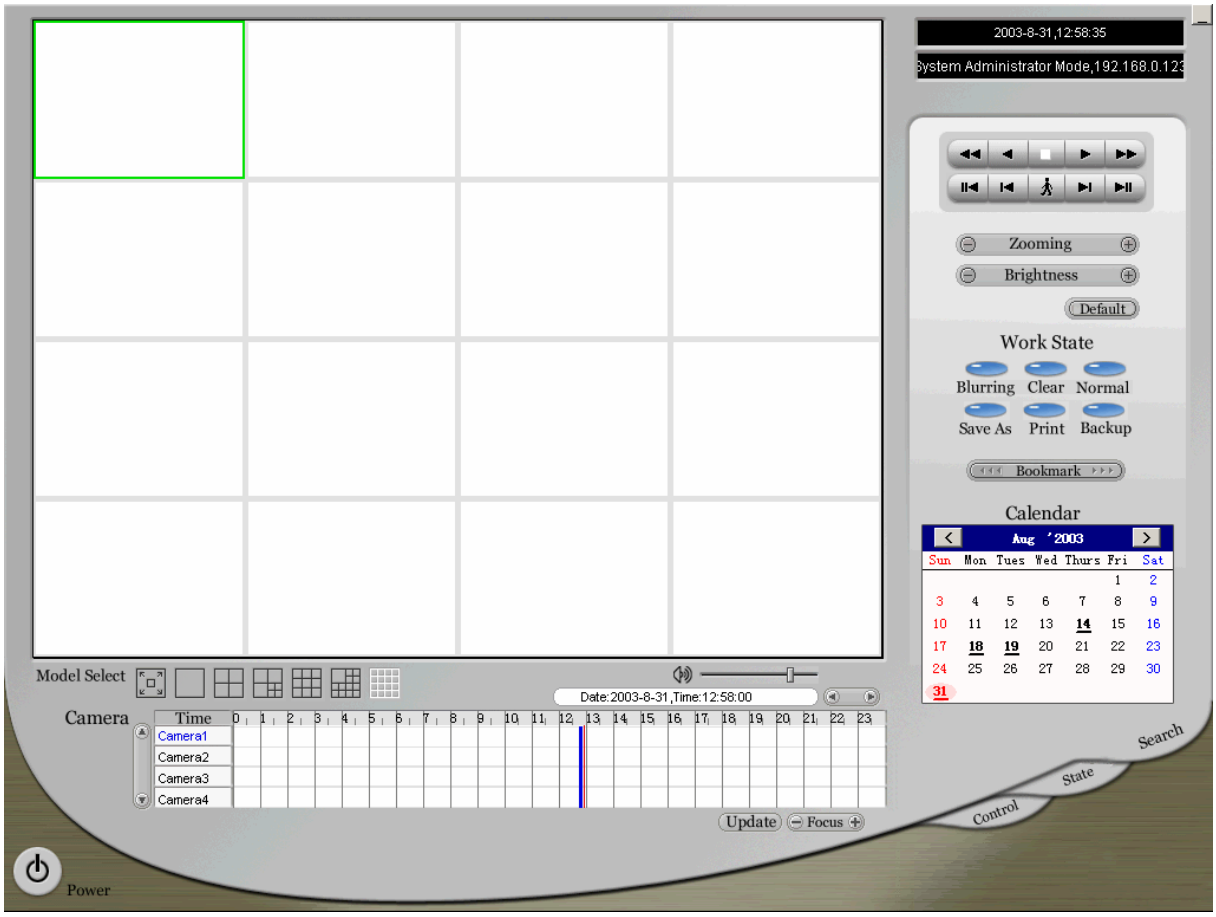
12-7. 16 splits mode: displays 16 screens

12-8. Auto Switching: rotates between split screen modes at a regular interval

13. Power: **Close application**



DVR Search Panel



1. Information: displays date & other system information

2. Play Control

2-1. □□: Fast backward.

2-2. □: Backward

2-3. □: Stop

2-4. □: Play

2-5. □□: Fast forward

2-6. □□: move the start point of the recoding backward

2-7. |□: move backs one frame

2-8. ♠: move the place of event conducting

2-9. □|: move forward one frame

2-10.□□: move the end point of the recording forward

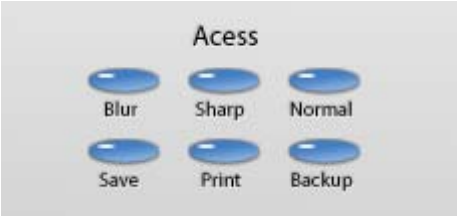
3. Zoom & Brightness: **control zoom in/out & brightness of recorded images**

3-1. Zoom: adjust zoom in/out

3-2. Brightness: adjust brightness

3-3. Default: reset to the default settings

4. Zoom & Brightness: **edit, save, and print recorded images**

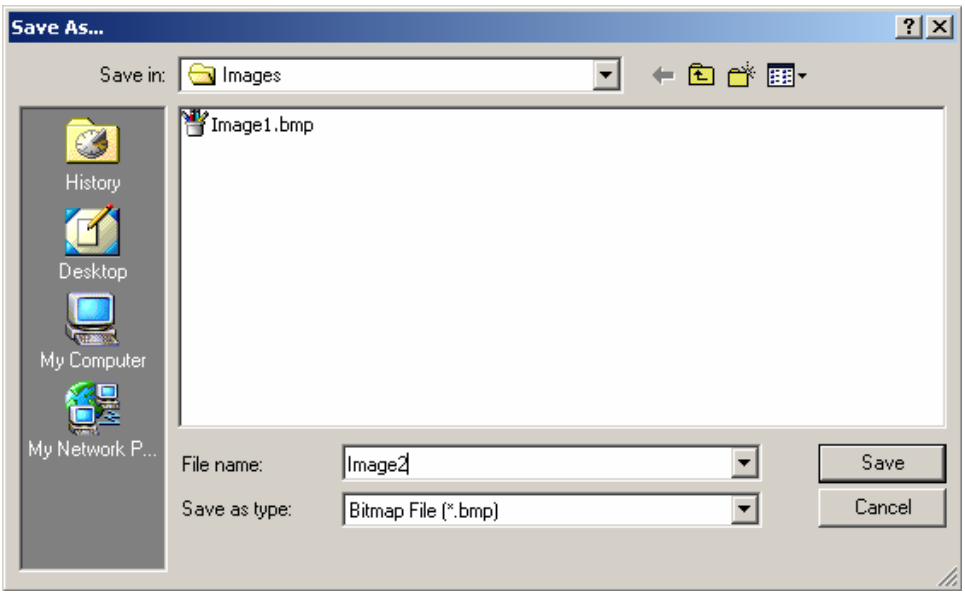


4-1. Blur: soften the selected image

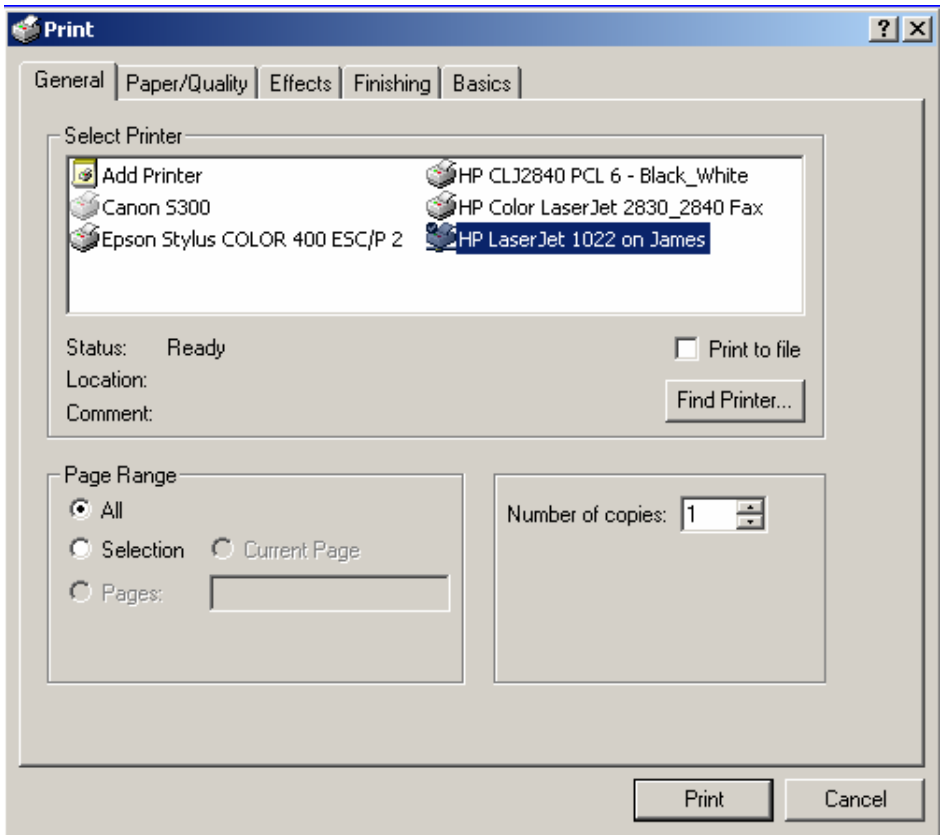
4-2. Sharp: sharpen the selected image

4-3. Normal: reset to the default settings

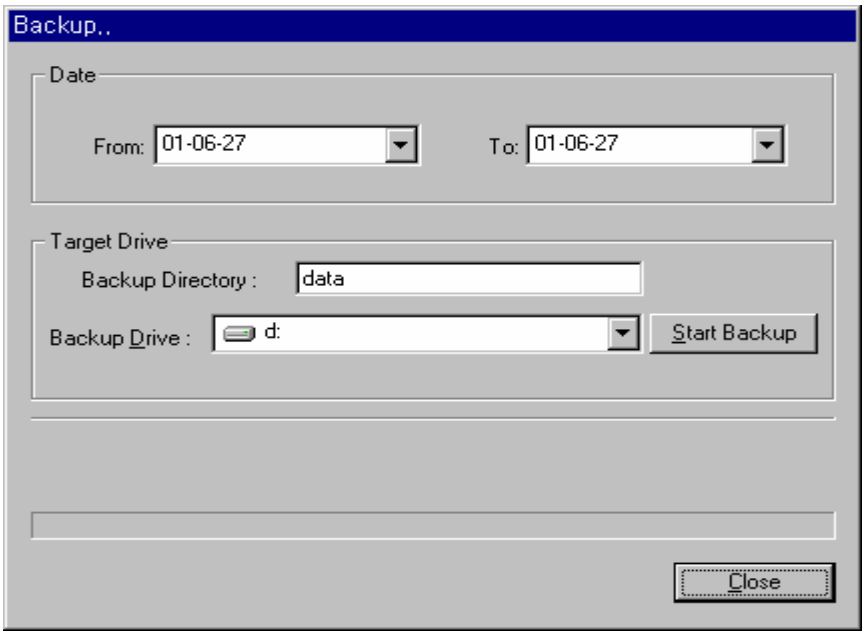
4-4. Save: save an image as a BMP file



4-5. Print: print out selected image



4-6. Backup: backup recorded data to an alternate storage device



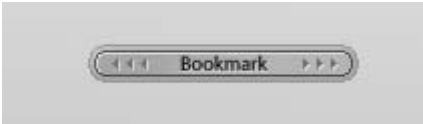
4-6-1. Date: select the period for data to be backed up

4-6-2. Target Drive: select backup drive location

4-6-3. StartBackup: Start Backup

4-6-4. Close: Close Backup

5. BookMark: make a BookMark of recorded image



5-1. To Open click "BookMark"

5-2. BookMark List: displays the date and time of the BookMark

5-3. Add: add selected Bookmark

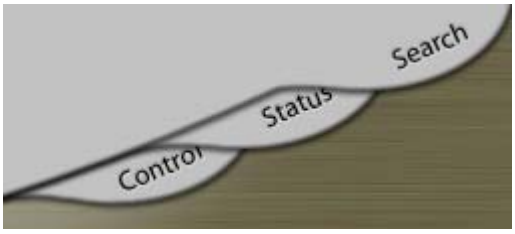
5-4. Delete: deleted selected Bookmark

5-5. Delete All: delete all Bookmarks in the list

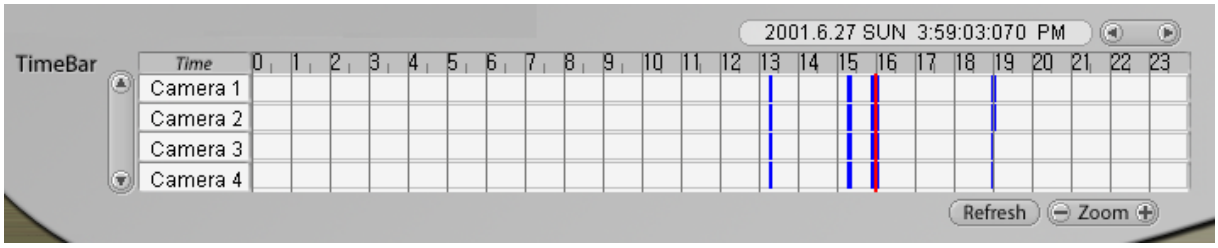
5-6. Ok: close the BookMark dialogue box

6. Calendar: **Select a date to view recorded images**

7. Tabmode: **change between system panels**



8. TimeBar: **display recorded videos for a selected date and time**



8-1. ▲▼: change camera.

8-2. □□: move forward or backward on the calendar

8-3. Zoom: adjust the time intervals for the selected date

8-4. Refresh: refresh the Time Bar

9. Mode Select: **control split screen display**

9-1. Full screen mode: converts to full screen mode

9-2. 1 split mode: displays 1 screen

9-3. 4 splits mode: displays 4 screens

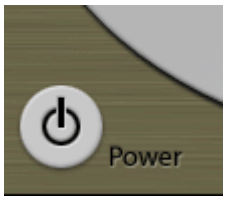
9-4. 7 splits mode: displays 7 screens

9-5. 9 splits mode: displays 9 screens

9-6. 13 splits mode: displays 13 screens

9-7. 16 splits mode: displays 16 screens

10. Power: **Close Application**



DVR Capture Full Screen Mode

1. Mode Select: **Control split screen display**

1-1. Restore mode: converts to previous mode.

1-2. 1 splits mode: displays 1 screen

1-3. 4 splits mode: displays 4 screens

1-4. 7 splits mode: displays 7 screens

1-5. 9 splits mode: displays 9 screens

1-6. 13 splits mode: displays 13 screens

1-7. 16 splits mode: displays 16 screens

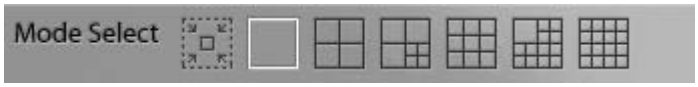
1-8. Auto Switching: rotates between split screen modes at a regular interval

2. Camera Select: **Select the camera you wish to view or adjust**

 You can only select one camera for full screen mode

DVR Replay Full Screen mode

1. Mode Select: **control split screen display**



1-1. Restore mode: converts to previous mode

1-2. 1 split mode: displays 1 screen

1-3. 4 splits mode: displays 4 screens

1-4. 7 splits mode: displays 7 screens

1-5. 9 splits mode: displays 9 screens

1-6. 13 splits mode: displays 13 screens

1-7. 16 splits mode: displays 16 screens

2. Play Control

2-1. □□: Fast backward.

2-2. □: Backward

2-3. □: Stop

2-4. □: Play

2-5. □□: Fast forward

2-6. □□: move the start point of the recoding backward

2-7. |□: move backs one frame

2-8. ♠: move to the time of the event occurrence

2-9. □|: move forward one frame

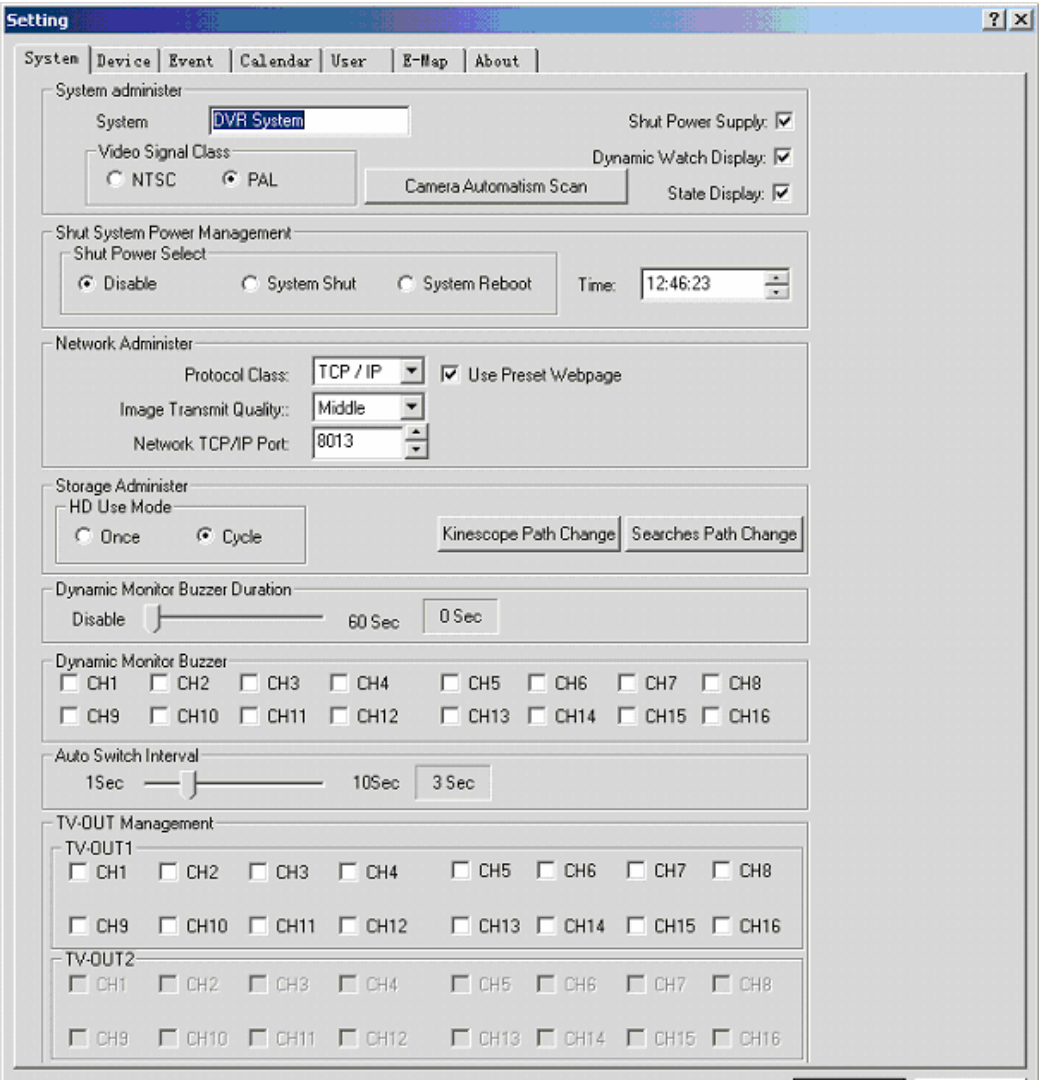
2-10.□□: move the end point of the recording forward

2-9. □|: move forward to a frame

2-10.□□: move the ending of recorded data

DVR Replay System Setup mode

1. System Setup



1-1. System location: select the name of the system you wish to use

1-2. Save Data Directory: select the folder you wish to save data too

1-3. Auto Switching Interval: select the time period for auto switching

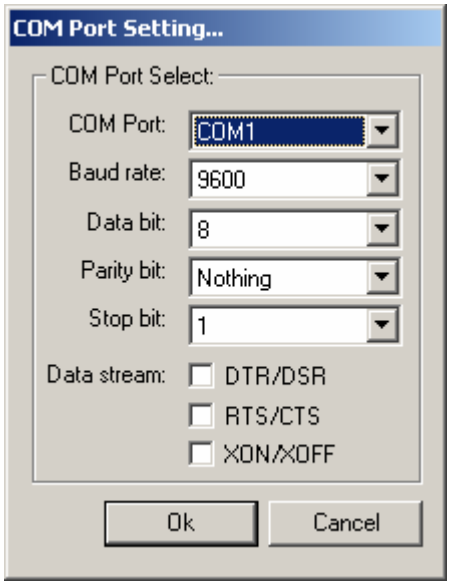
1-4. Power On/Off: select this option to shut the computer down when closing this application

1-5. Display Channel Text: turn channel information display on/off

1-6. Video Signal Type: select video input signal

1-7. Hard Disk Usage: set HDD user mode

1-8. Pan / Tilt / zoom: set PTZ



1-8-1. Port: select connecting COM port

1-8-2. Baud Rate: select Baud Rate

1-8-3. Date Bits: select Data bits

1-8-4. Parity: select Party bits

1-8-5. Stop Bits: select Stop bits

1-8-6. Flow: select Flow control

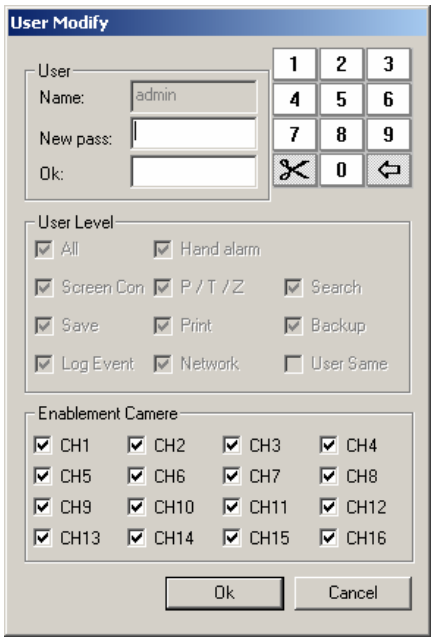
1-9. Set Password

1-9-1. On Setup: confirm Password on setup

1-9-2. On Recoding Stop: confirm Password on recording stop

1-9-3. On Shut Down: confirm Password on system shut down

1-9-4. Change Passwords



1-9-5. User Level: select user level

1-9-6. Current Password: input current password

1-9-7. New Password: input new password

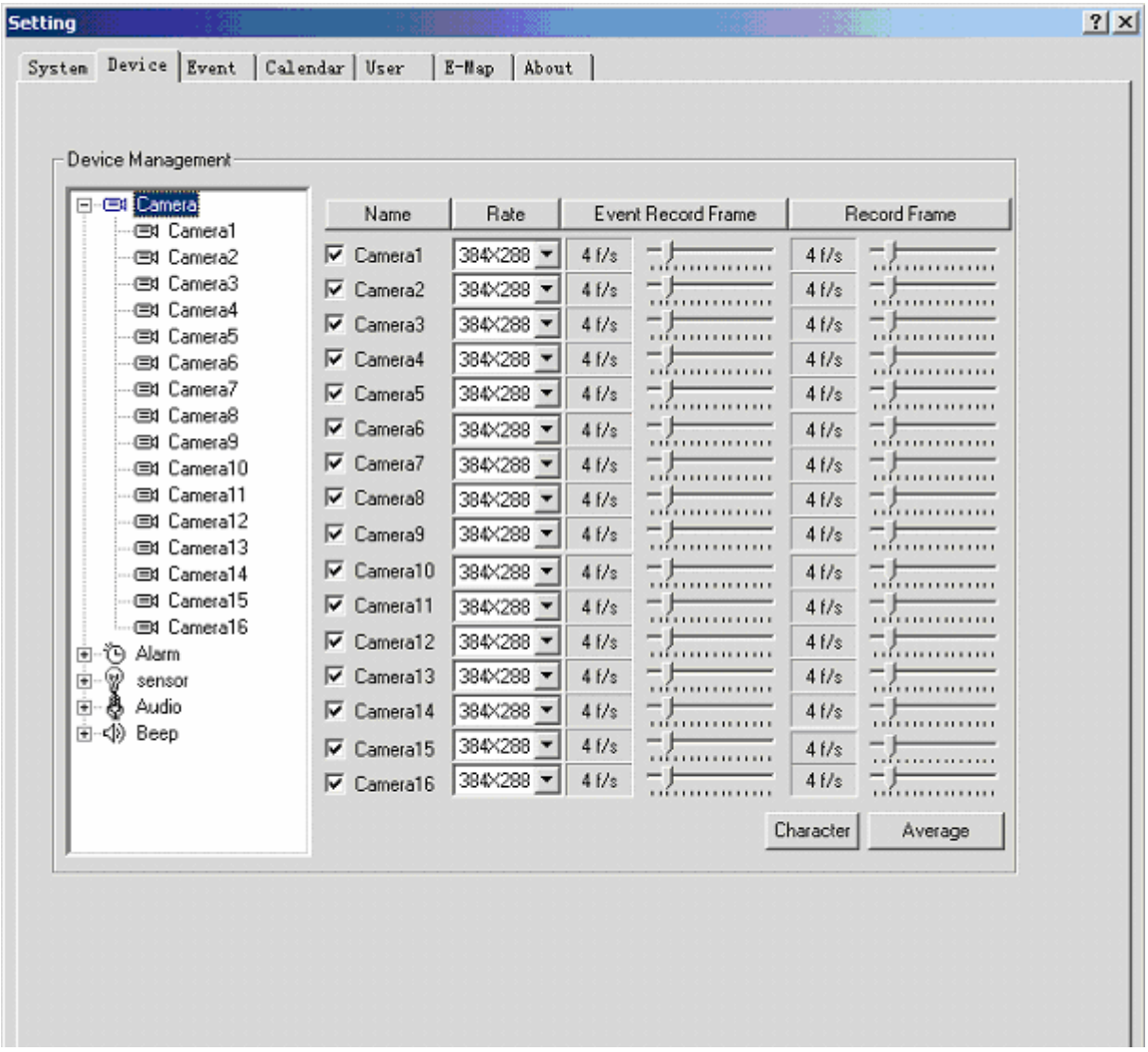
1-9-8. Confirmation: input new password again

1-9-9. Ok

1-9-10. Cancel

1-10. Active Channel: select the camera channels these settings apply too

2. Recording Setup



2-1. Channel: change the name of a camera

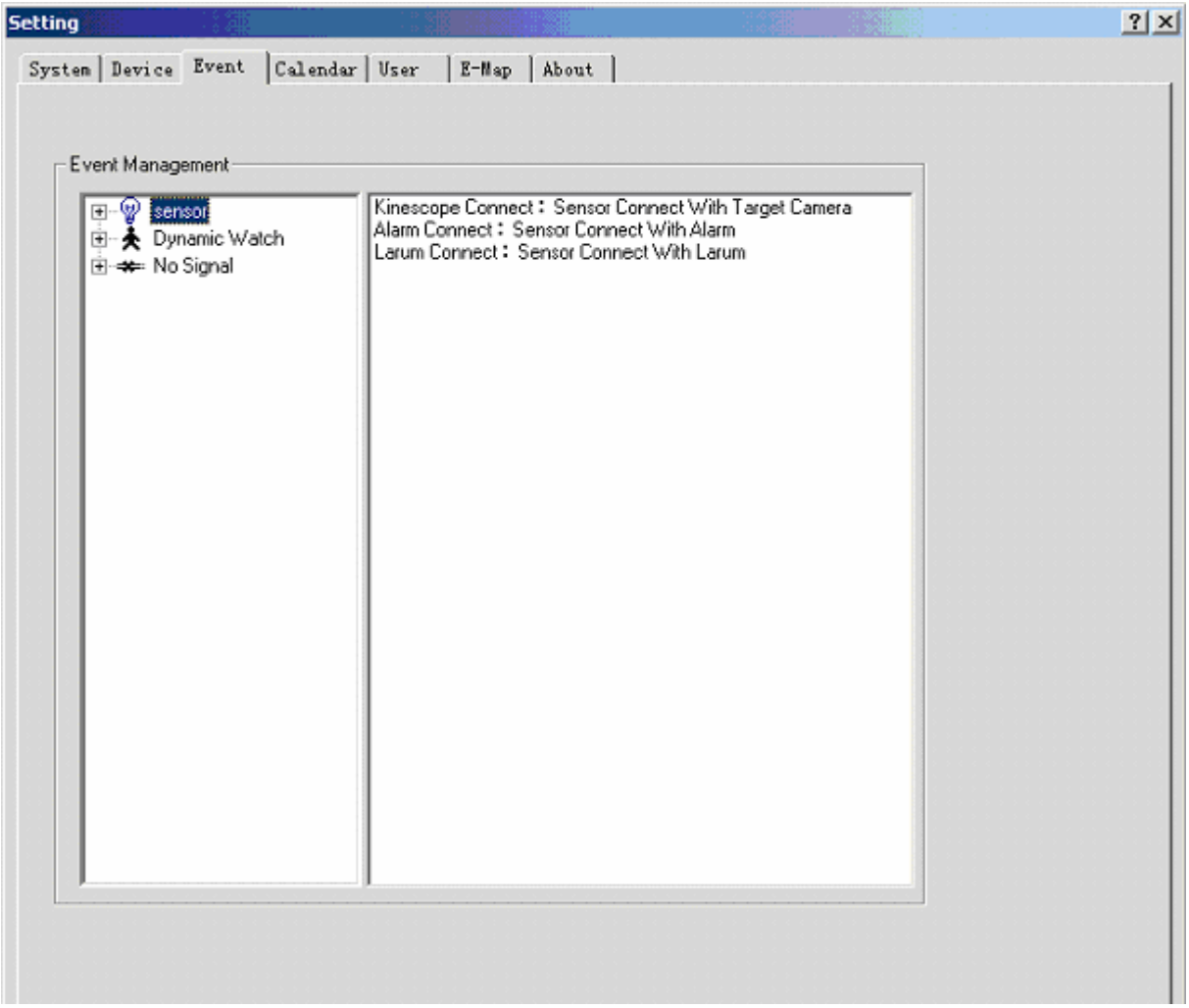
2-2. On/Off: set recording to on/off

2-3. Resolution: select the desired resolution for each camera

2-4. Quality: select the quality require for compressed images

2-5. Speed: select the desired recording speed

Motion Detection Setup

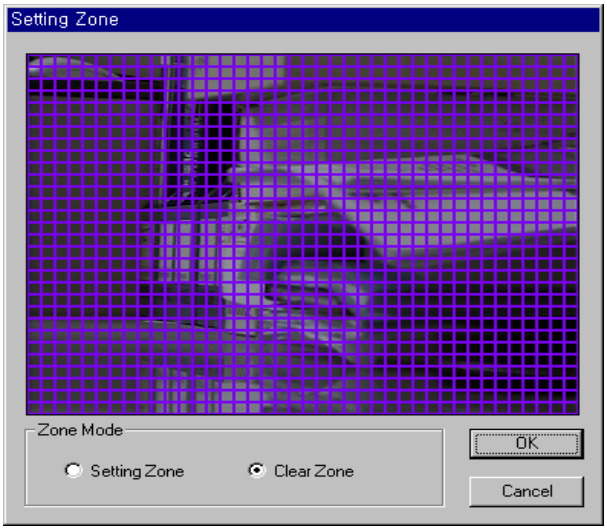


3-1. Channel: select the desired camera

2-2. On/Off: enable/disable motion detection

2-3. Sensitive: select the desired sensitivity for motion sensors

2-4. Zone: select the active detection zone



2-4-1. Setting Zone: set motion detection zone

2-4-2. Clear Zone: clear motion detection zone

2-4-3. Ok

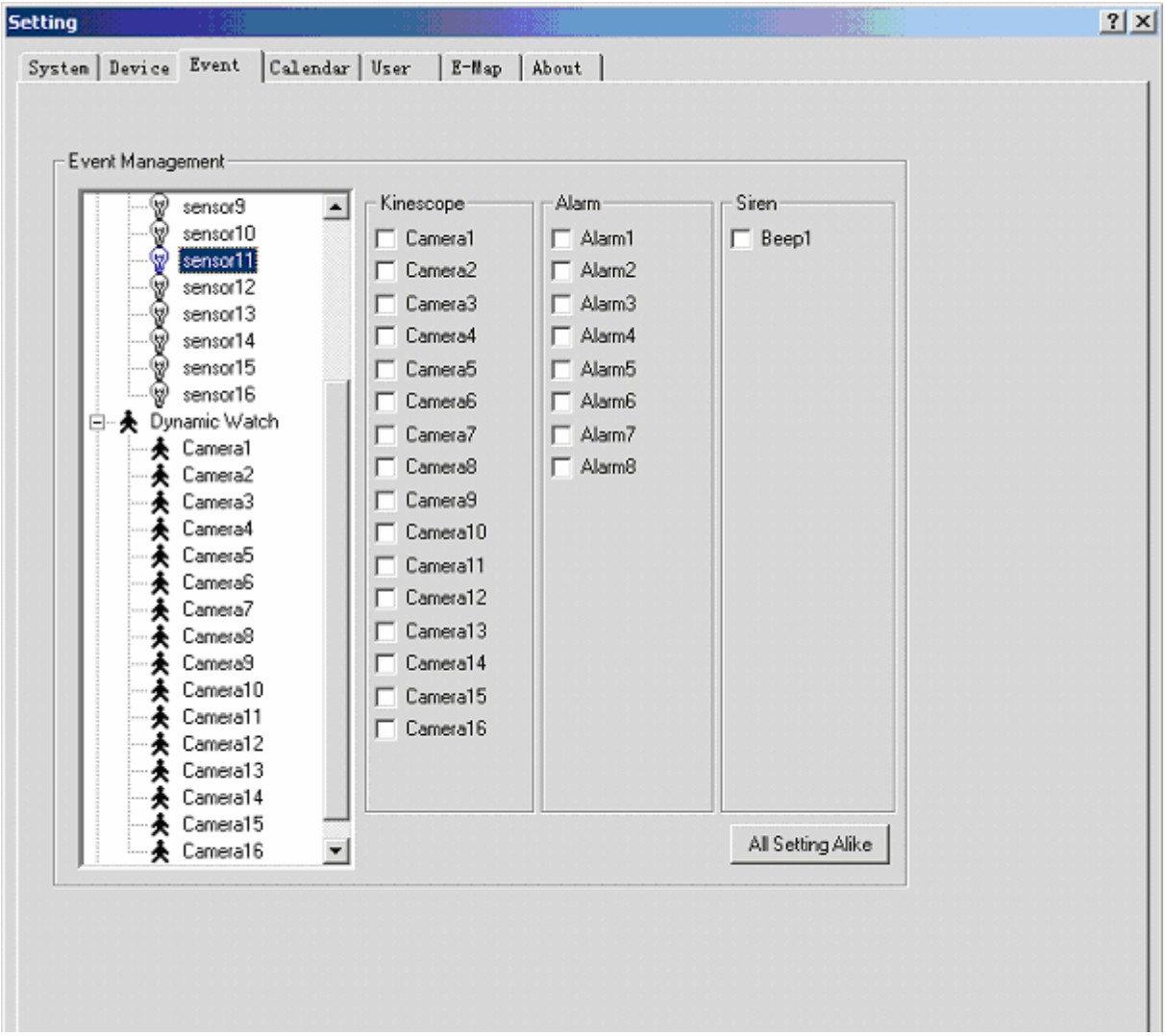
2-4-4. Cancel

2-5. Link: select which cameras will begin recording upon activation of the motion sensors

2-5-1. Select which cameras will record

2-6. Recording Linkage Status: display a number of connected cameras

4. Sensor & Alarm Setup



4-1 Channel: recording target camera

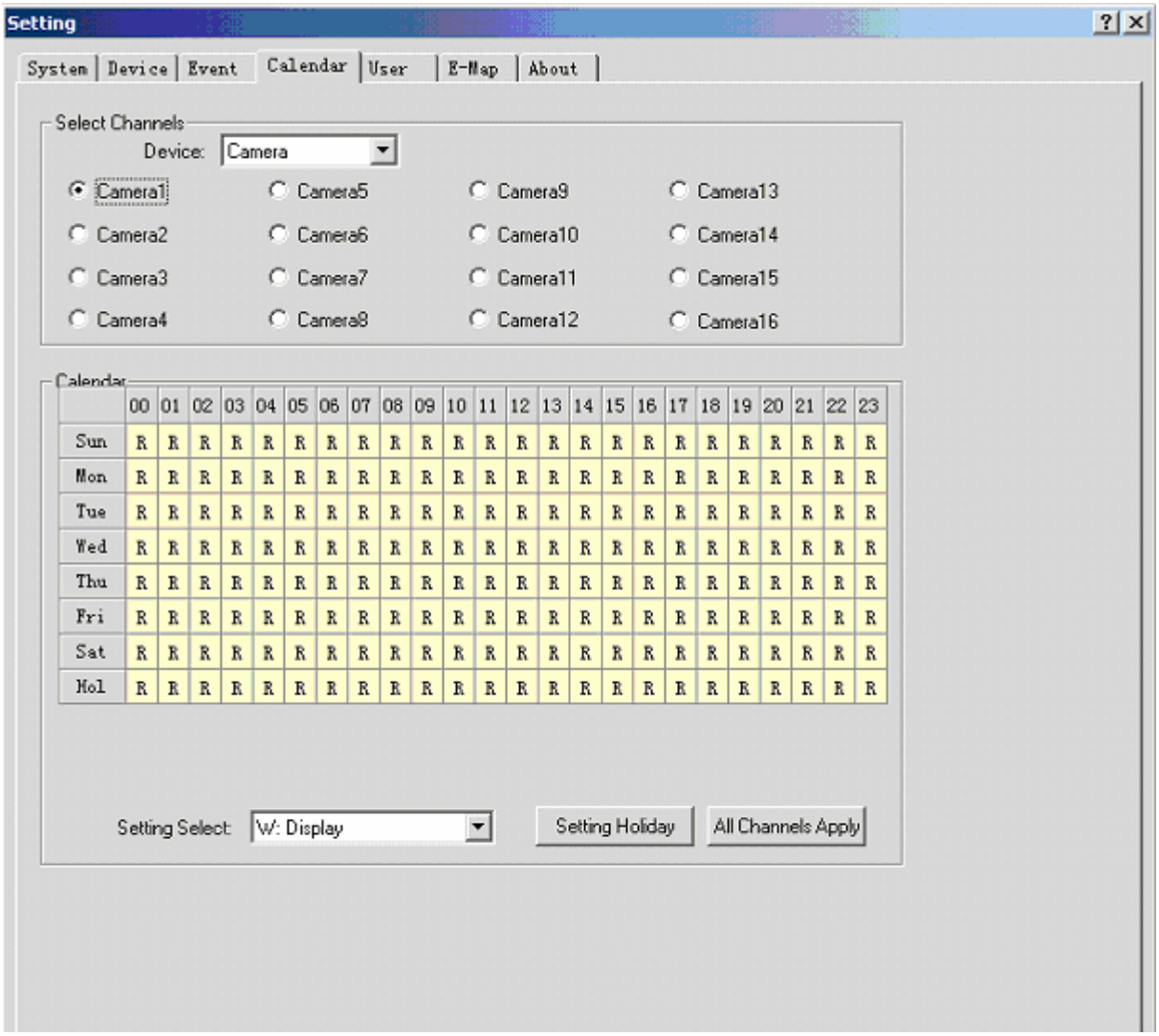
4-2 Link Sensor: link between recording target camera and sensor

4-3 Sensor Linkage Status: display sensor linkage status

4-4 Link Alarm: link between recording target camera and Alarm

4-5 Motion Latency Time: set motion detection time

5. Event



5-1. Channel: Select which cameras will respond to an event

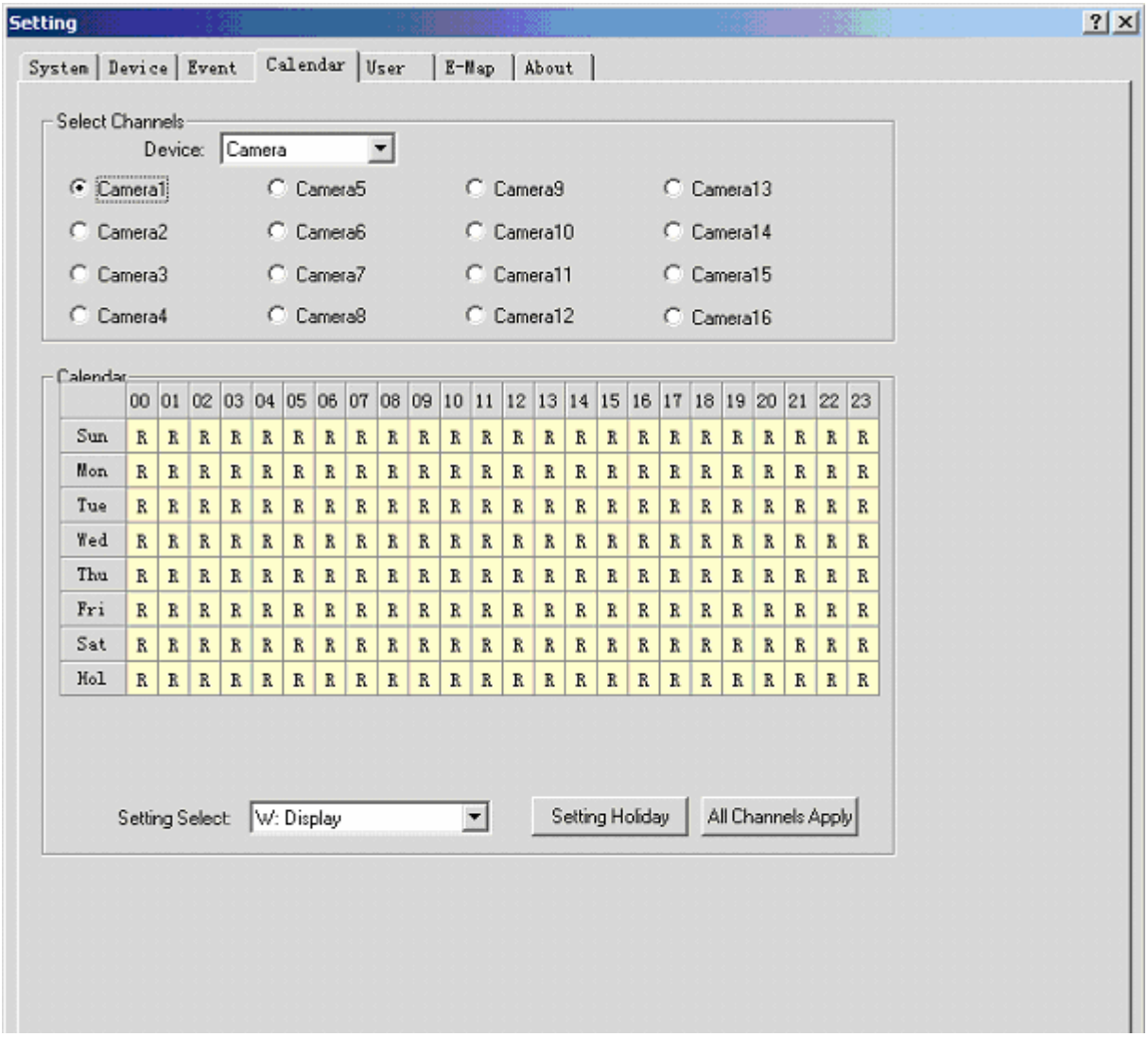
5-2. Record: set to record when an event occurs

5-3. Record Latency Time: select how long to record for following an event

5-4. Motion: select which sensors will respond to an event

5-5. Motion Latency Time: set motion latency time

5. Schedule



5-1. Channel: select cameras you wish to program

5-2. On/Off: enable/disable camera scheduling

5-3. Event: select which events the cameras will respond to

5-4. Day: select which dates the camera will be active

5-5. Time: select which times the camera will be active

5-6. Clear All: clear the scheduled settings

DVR Trouble Shooting

1. When there is no capture image on the screen

1-1. Check camera connection (power, cable)

1-2. Check DVR software is properly installed

1-3. Check that DirectX version 7 or later is installed

2. Errors during recording mode

2-1. Check recording settings on the setup panel

2-2. Check the light color in the recording panel

2-3. Check HDD capacity

3. Errors during Replay mode

3-1. Check the date and time of the recording

3-2. Check recording timetable

4. No response to PTZ controls

4-1. Check the PTZ connections

4-2. Check PTZ support is selected in the setup menu

4-3. Check PTZ settings in the setup system

5 Errors with the HDD

5-1. Check the Disk Clean Option in the property menu

5-2. Check the HDD Disk Option is set to "recycle"

5-3. Back up data to an other storage device, or delete bad sectors

Caution : **DO NOT DELETE data folder**(only delete files in the folder)